

JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES
(An Autonomous Institution)

Mapping of the courses to employability/ entrepreneurship/ Skill development
Academic Year 2016-17

| Academic Year 2016-17 | | | | | |
|-----------------------|---|-------------|-----------------------|-------------------|-------------------|
| S.NO | Name of the Course | Course Code | Mapping of courses on | | |
| | | | Employability/ | Entrepreneurship/ | Skill development |
| | | | Employability | Entrepreneurship | Skill Development |
| 1. | Mathematics-I | AJ001 | | | ✓ |
| 2. | Engineering Physics | AJ008 | | | ✓ |
| 3. | English | AJ013 | | | ✓ |
| 4. | Engineering Graphics | AJ303 | ✓ | | |
| 5. | Problem Solving and Computer programming | AJ501 | ✓ | | |
| 6. | Engineering Physics Lab | AJ009 | | | ✓ |
| 7. | Problem Solving and Computer programming Lab | AJ502 | | | ✓ |
| 8. | Information Technology workshop | AJ503 | | | ✓ |
| 9. | Mathematics-II | AJ002 | | | ✓ |
| 10. | Basic Electrical & Electronics Engineering | AJ203 | ✓ | | |
| 11. | Engineering Chemistry | AJ010 | ✓ | | |
| 12. | Data Structures through C++ | AJ506 | ✓ | | |
| 13. | Advanced Communication Skills Lab | AJ5015 | | | ✓ |
| 14. | English Language Communication Skills Lab | AJ014 | | | ✓ |
| 15. | Engineering Mechanics | A10302 | ✓ | | |
| 16. | Mathematics – II | A30006 | | | ✓ |
| 17. | Electrical & Electronics Engineering | A30203 | ✓ | | |
| 18. | Strength of Materials –I | A30107 | ✓ | | |
| 19. | Surveying | A30108 | ✓ | | |
| 20. | Fluid Mechanics | A30101 | ✓ | | |
| 21. | Managerial Economics and Financial Analysis | A30010 | | ✓ | |
| 22. | Surveying Lab- I | A30185 | | | ✓ |
| 23. | Strength of Materials Lab | A30183 | | | ✓ |
| 24. | Probability & Statistics | A40008 | | | ✓ |
| 25. | Strength of Materials - II | A40114 | ✓ | | |
| 26. | Hydraulics & Hydraulic Machinery | A40111 | ✓ | | |
| 27. | Structural Analysis –I | A40115 | ✓ | | |
| 28. | Building Materials, Construction & Planning | A40109 | ✓ | | |
| 29. | Computer Aided Drafting of Buildings | A40186 | ✓ | | |
| 30. | Surveying Lab- II | A40190 | | | ✓ |
| 31. | Concrete Technology | A50116 | ✓ | | |
| 32. | Reinforced Concrete Structures Design and Drawing | A50121 | ✓ | | |
| 33. | Engineering Geology | A50118 | ✓ | | |
| 34. | Geotechnical Engineering | A50120 | ✓ | | |
| 35. | Water Resources Engineering-I | A50122 | ✓ | | |
| 36. | Disaster Management | A50117 | ✓ | | |
| 37. | Intellectual Property Rights | A50017 | | ✓ | |
| 38. | Human Values and Professional Ethics | A50018 | | ✓ | |
| 39. | Fluid Mechanics & Hydraulic Machinery Lab | A50181 | | | ✓ |
| 40. | Engineering Geology Lab | A50191 | | | ✓ |
| 41. | Steel Structures Design and Drawing | A60130 | ✓ | | |

| | | | | | |
|-----|---|--------|---|---|---|
| 42. | Environmental Engineering | A60119 | ✓ | | |
| 43. | Transportation Engineering -I | A60132 | ✓ | | |
| 44. | Foundation Engineering | A60126 | ✓ | | |
| 45. | Structural Analysis -II | A60131 | ✓ | | |
| 46. | Elements of Earthquake Engineering | A60123 | ✓ | | |
| 47. | Ground Improvement Techniques | A60127 | ✓ | | |
| 48. | Ground Water Hydrology | A60128 | ✓ | | |
| 49. | Environmental Impact Assessment | A60124 | ✓ | | |
| 50. | Principles of Entrepreneurship | A60129 | | ✓ | |
| 51. | Geotechnical Engineering Lab | A60194 | | | ✓ |
| 52. | Advanced Communication Skills Lab | A60086 | | | ✓ |
| 53. | Engineering Hydrology | J4108 | ✓ | | |
| 54. | Probability & Statistics | J4005 | | | ✓ |
| 55. | Concrete Technology | J4109 | ✓ | | |
| 56. | Hydraulics & Hydraulic Machinery | J4110 | ✓ | | |
| 57. | Energy Sciences & Engineering | J4129 | ✓ | | |
| 58. | Solid Mechanics – II | J4130 | ✓ | | |
| 59. | Air & Noise Pollution and Control | J4131 | ✓ | | |
| 60. | Concrete Technology Lab | J4111 | | | ✓ |
| 61. | Surveying Lab - II | J4112 | | | ✓ |
| 62. | Fluid Mechanics & Hydraulic Machinery Lab | J4113 | | | ✓ |
| 63. | Electrical Circuits | A30204 | ✓ | | |
| 64. | Electromagnetic fields | A30403 | ✓ | | |
| 65. | Electrical Machines-I | A30206 | ✓ | | |
| 66. | Fluid Mechanics and Hydraulic Machinery Lab | A30181 | | | ✓ |
| 67. | Electronic devices & Circuit labs | A30482 | | | ✓ |
| 68. | Managerial Economics & Financial Analysis | A40010 | | ✓ | |
| 69. | Power Systems-I | A40214 | ✓ | | |
| 70. | Electronic Circuits | A40413 | ✓ | | |
| 71. | Switching Theory and Logic Design | A40407 | ✓ | | |
| 72. | Network Theory | A40213 | ✓ | | |
| 73. | Electrical Machines-II | A40212 | ✓ | | |
| 74. | Electrical Machines lab -I | A40287 | | | ✓ |
| 75. | Electrical Circuits and Simulation Lab | A40286 | | | ✓ |
| 76. | IC Applications | A50423 | ✓ | | |
| 77. | Management Science | A50014 | | ✓ | |
| 78. | Power Systems-II | A50221 | ✓ | | |
| 79. | Control Systems | A50211 | ✓ | | |
| 80. | Power Electronics | A50220 | ✓ | | |
| 81. | Electrical Machines-III | A50218 | ✓ | | |
| 82. | Electrical Machines lab –II | A50289 | | | ✓ |
| 83. | Electrical and Electronics Instrumentation | A60223 | ✓ | | |
| 84. | Static Drives | A60225 | ✓ | | |
| 85. | Computer Methods in Power Systems | A60222 | ✓ | | |
| 86. | Microprocessors and Interfacing Devices | A60430 | ✓ | | |
| 87. | Control Systems and Simulation Lab | A60290 | | | ✓ |
| 88. | Power Electronics and Simulation Lab | A60291 | | | ✓ |
| 89. | Power systems-I | J4210 | ✓ | | |
| 90. | Electrical Machines-II | J4211 | ✓ | | |
| 91. | Switching Theory and Logic Design | J4404 | ✓ | | |
| 92. | IC Applications | J4417 | ✓ | | |
| 93. | Fluid Mechanics and Hydraulic Machinery | J4110 | ✓ | | |
| 94. | Fluid Mechanics and Hydraulic Machinery Lab | J4112 | | | ✓ |
| 95. | Basic Electrical Simulation Lab | J4246 | | | ✓ |
| 96. | IC & HDL Simulation Lab | J4421 | | | ✓ |

| | | | | | |
|------|--|--------|---|--|---|
| 97. | Environmental Studies | A30009 | | | ✓ |
| 98. | Mechanics of Solids | A30104 | ✓ | | |
| 99. | Thermodynamics | A30306 | ✓ | | |
| 100. | Metallurgy and Materials Science | A31803 | ✓ | | |
| 101. | Metallurgy & Mechanics of Solids Lab | A30085 | | | ✓ |
| 102. | Production Technology | A40312 | ✓ | | |
| 103. | Kinematics of Machinery | A40309 | ✓ | | |
| 104. | Thermal Engineering -I | A40313 | ✓ | | |
| 105. | Mechanics of Fluids and Hydraulic Machines | A40112 | ✓ | | |
| 106. | Production Technology Lab | A40382 | | | ✓ |
| 107. | Mechanics of Fluids & Hydraulic Machines Lab | A40188 | | | ✓ |
| 108. | Engineering Metrology | A50318 | ✓ | | |
| 109. | Dynamics of Machinery | A50317 | ✓ | | |
| 110. | Machine Tools | A50321 | ✓ | | |
| 111. | Design of Machine Members – I | A50316 | ✓ | | |
| 112. | Thermal Engineering -II | A50326 | ✓ | | |
| 113. | Machine Tools & Metrology Lab | A50384 | | | ✓ |
| 114. | Thermal Engineering Lab | A50383 | | | ✓ |
| 115. | Engineering Thermodynamics | J3305 | ✓ | | |
| 116. | Mechanics of Solids | J3306 | ✓ | | |
| 117. | Material Science and Metallurgy | J3307 | ✓ | | |
| 118. | Mechanics of Fluids & Hydraulic Machinery | J3309 | ✓ | | |
| 119. | Material Testing and Metallurgy Lab | J3308 | | | ✓ |
| 120. | Mechanics of Fluids & Hydraulic Machinery Lab | J3310 | | | ✓ |
| 121. | Thermal Engineering - I | J4313 | ✓ | | |
| 122. | Thermal Engineering Lab | AJ5320 | | | ✓ |
| 123. | Machine Tools Lab | AJ5323 | | | ✓ |
| 124. | Energy studies | AJMC03 | ✓ | | |
| 125. | Network Theory | J1204 | ✓ | | |
| 126. | Electronic Devices and Circuits | J3401 | ✓ | | |
| 127. | Electrical Technology | J3208 | ✓ | | |
| 128. | Signals and Systems | J3402 | ✓ | | |
| 129. | Probability Theory and Stochastic Process | J3403 | ✓ | | |
| 130. | Electronic Devices and Circuits Lab | J3404 | | | ✓ |
| 131. | Basic Simulation Lab | J3405 | | | ✓ |
| 132. | Electrical Technology Lab | J3209 | | | ✓ |
| 133. | Analog Communications | J4406 | ✓ | | |
| 134. | Pulse and Digital Circuit | J4407 | ✓ | | |
| 135. | Electronic Circuit Analysis | J4408 | ✓ | | |
| 136. | Digital System Design | J4409 | ✓ | | |
| 137. | Electromagnetic Waves and Transmission Lines | J4410 | ✓ | | |
| 138. | Pulse and Digital Circuits Lab | J4411 | | | ✓ |
| 139. | Electronic Circuit Analysis Lab | J4412 | | | ✓ |
| 140. | Analog Communications Lab | J4413 | | | ✓ |
| 141. | IC Applications | J5414 | ✓ | | |
| 142. | Digital Signal Processing | J5415 | ✓ | | |
| 143. | Digital Communications | J5455 | ✓ | | |
| 144. | Antennas and Wave propagation | J5416 | ✓ | | |
| 145. | Power Electronics | J5217 | ✓ | | |
| 146. | Bio Medical Electronics | J5418 | ✓ | | |
| 147. | IC Applications Lab | J5420 | | | ✓ |
| 148. | Digital Signal Processing Lab Digital Communications Lab | J5421 | | | ✓ |
| 149. | Internship | J5480 | | | ✓ |
| 150. | Linear Control Systems | J6422 | ✓ | | |

| | | | | | |
|------|--|--------|---|--|---|
| 151. | VLSI Technology | J6423 | ✓ | | |
| 152. | Microprocessors and Microcontrollers | J6424 | ✓ | | |
| 153. | Electronic Measurements and Instrumentation | J6425 | ✓ | | |
| 154. | Information Theory and Coding | J6426 | ✓ | | |
| 155. | Speech and Audio Processing | J6427 | ✓ | | |
| 156. | Nano Electronics | J6428 | ✓ | | |
| 157. | e-CAD & VLSI Lab | J6429 | | | ✓ |
| 158. | Microprocessors and Microcontrollers Lab | J6430 | | | ✓ |
| 159. | Microwave and Optical Communication | J7431 | ✓ | | |
| 160. | Computer Networks | J7526 | ✓ | | |
| 161. | Adaptive Signal Processing | J7432 | ✓ | | |
| 162. | Wireless Communication Networks | J7433 | ✓ | | |
| 163. | Image and Video Processing | J7434 | ✓ | | |
| 164. | High Speed Electronics | J7435 | ✓ | | |
| 165. | Wavelet | J7436 | ✓ | | |
| 166. | Embedded systems | J7437 | ✓ | | |
| 167. | Error Correcting Codes | J7438 | ✓ | | |
| 168. | Introduction to MEMS | J7439 | ✓ | | |
| 169. | RF circuit Design | J7440 | ✓ | | |
| 170. | Microwave & Optical Fiber Communication Lab | J7441 | | | ✓ |
| 171. | CMOS Design | J8443 | ✓ | | |
| 172. | Scientific Computing | J8444 | ✓ | | |
| 173. | Radar Systems | J8445 | ✓ | | |
| 174. | Mixed Signal Design | J8446 | ✓ | | |
| 175. | Wireless sensor Networks | J8447 | ✓ | | |
| 176. | Satellite Communication | J8448 | ✓ | | |
| 177. | Analog Communications | J4406 | ✓ | | |
| 178. | Pulse and Digital Circuit | J4407 | ✓ | | |
| 179. | Electronic Circuit Analysis | J4408 | ✓ | | |
| 180. | Basic Electrical & Electronics Engineering Lab | AJ204 | | | ✓ |
| 181. | Engineering Workshop | AJ306 | | | ✓ |
| 182. | Data Structures through C++ Lab | AJ507 | | | ✓ |
| 183. | Mathematical Foundations of Computer Science | AJ3006 | | | ✓ |
| 184. | Switching Theory and Digital Logic Design | AJ3404 | ✓ | | |
| 185. | Computer Organization | AJ3416 | ✓ | | |
| 186. | Database Management Systems | AJ3511 | ✓ | | |
| 187. | Java Programming | AJ3512 | ✓ | | |
| 188. | Database Management Systems Lab | AJ3513 | | | ✓ |
| 189. | Java Programming Lab | AJ3514 | | | ✓ |
| 190. | Probability and Statistics | AJ4005 | | | ✓ |
| 191. | Design and Analysis of Algorithms | AJ4515 | ✓ | | |
| 192. | Formal Languages and Automata Theory | AJ4516 | ✓ | | |
| 193. | Operating Systems | AJ4517 | ✓ | | |
| 194. | Software Engineering | AJ4518 | ✓ | | |
| 195. | Operating Systems Lab | AJ4519 | | | ✓ |
| 196. | CASE Tools Lab | AJ4520 | | | ✓ |
| 197. | Gender Sensitization | AJMC01 | | | ✓ |
| 198. | Microprocessors and Interfacing | AJ5451 | ✓ | | |
| 199. | Computer Networks | AJ5521 | ✓ | | |
| 200. | Compiler Design | AJ5522 | ✓ | | |
| 201. | Machine Learning | AJ5523 | ✓ | | |
| 202. | Computer Forensics | AJ5524 | ✓ | | |
| 203. | Advanced Databases | AJ5525 | ✓ | | |
| 204. | Microprocessors and Interfacing Lab | AJ5452 | | | ✓ |
| 205. | Compiler Design & Computer Networks Lab | AJ5526 | | | ✓ |

| | | | | | |
|------|--|-----------|---|---|---|
| 206. | Value Education, Human Rights and Legislative Procedures | AJMC02 | | ✓ | |
| 207. | Data Warehousing and Data Mining | AJ6527 | ✓ | | |
| 208. | Web Programming | AJ6528 | ✓ | | |
| 209. | Network Security | AJ6529 | ✓ | | |
| 210. | High Performance Computing | AJ6533 | ✓ | | |
| 211. | Design Patterns | AJ6534 | ✓ | | |
| 212. | Software Project Management | AJ6535 | ✓ | | |
| 213. | Data Warehousing and Data Mining LAB | AJ6536 | | | ✓ |
| 214. | Web Programming Lab | AJ6537 | | | ✓ |
| 215. | Visual Programming Lab | AJ6538 | | | ✓ |
| 216. | Network Programming | AJ7539 | ✓ | | |
| 217. | Mobile Application Development | AJ7540 | ✓ | | |
| 218. | Software Testing Methodologies | AJ7541 | ✓ | | |
| 219. | Computer Graphics and Multimedia | AJ7542 | ✓ | | |
| 220. | Digital Image Processing | AJ7433 | ✓ | | |
| 221. | Embedded Systems | AJ7431 | ✓ | | |
| 222. | Information Retrieval Systems | AJ7545 | ✓ | | |
| 223. | Secure Software Engineering | AJ7546 | ✓ | | |
| 224. | Network Programming Lab | AJ7547 | | | ✓ |
| 225. | Mobile Application Development Lab | AJ7548 | | | ✓ |
| 226. | Mini Project | AJ7581 | | | ✓ |
| 227. | E-Commerce | AJ8549 | | ✓ | |
| 228. | Semantic web and social networks | AJ8550 | ✓ | | |
| 229. | Web services | AJ8551 | ✓ | | |
| 230. | Human computer interaction | AJ8552 | ✓ | | |
| 231. | Big data management | AJ8553 | ✓ | | |
| 232. | Soft computing | AJ8554 | ✓ | | |
| 233. | Technical seminar | AJ 8582 | | | ✓ |
| 234. | Comprehensive viva voce | AJ8583 | | | ✓ |
| 235. | Major project | AJ8584 | | | ✓ |
| 236. | Data Structures and Algorithms | AJD581C01 | ✓ | | |
| 237. | Database Internals | AJD581C02 | ✓ | | |
| 238. | Distributed Systems | AJD581C03 | ✓ | | |
| 239. | Network Security | AJD581E01 | ✓ | | |
| 240. | Android Application Development | AJD581E02 | ✓ | | |
| 241. | Cloud Computing | AJD581E03 | ✓ | | |
| 242. | Internet of Things | AJD581E04 | ✓ | | |
| 243. | Machine Learning | AJD581E05 | ✓ | | |
| 244. | Parallel and Distributed Algorithms | AJD581E06 | ✓ | | |
| 245. | Software Architecture and Design Patterns | AJD581E07 | ✓ | | |
| 246. | Embedded Systems | AJD581E08 | ✓ | | |
| 247. | Data Structures and Algorithms Lab | AJD581L1 | | | ✓ |
| 248. | Seminar | AJD581S1 | | | ✓ |
| 249. | Network Programming | AJD581C04 | ✓ | | |
| 250. | Information Retrieval Systems | AJD581C05 | ✓ | | |
| 251. | Internet Technologies and Services | AJD581C06 | ✓ | | |
| 252. | Data Mining | AJD581E09 | ✓ | | |
| 253. | Storage Area Networks | AJD581E10 | ✓ | | |
| 254. | Semantic Web and Social Networks | AJD581E11 | ✓ | | |
| 255. | Cyber Security | AJD581E12 | ✓ | | |
| 256. | Big Data Analytics | AJD581E13 | ✓ | | |
| 257. | Soft Computing | AJD581E14 | ✓ | | |
| 258. | Software Process and Project Management | AJD581E15 | ✓ | | |
| 259. | Distributed Computing | AJD581E16 | ✓ | | |

| | | | | | |
|------|--|----------|---|---|---|
| 260. | Internet Technologies and Services Lab | AJD581L2 | | | ✓ |
| 261. | Seminar | AJD581S2 | | | ✓ |
| 262. | Comprehensive Viva-Voce | AJDCV58 | | | ✓ |
| 263. | Project | AJDPE58 | | | ✓ |
| 264. | Principles of management and organizational behavior | AJBM01 | | ✓ | |
| 265. | Business laws & environment | AJBM02 | | ✓ | |
| 266. | Managerial economics | AJBM03 | | ✓ | |
| 267. | Financial accounting & analysis | AJBM04 | | ✓ | |
| 268. | Statistics for management | AJBM05 | | ✓ | |
| 269. | E – commerce | AJBM06 | | ✓ | |
| 270. | Statistical data analysis - lab | AJBM52 | | ✓ | |
| 271. | Business communication- seminar | AJBM53 | | ✓ | |
| 272. | Human resource management | AJBM07 | | ✓ | |
| 273. | Marketing management | AJBM08 | | ✓ | |
| 274. | Financial management | AJBM09 | | ✓ | |
| 275. | Quantitative analysis for business decisions | AJBM10 | | ✓ | |
| 276. | ERP | AJBM11 | | ✓ | |
| 277. | Banking, insurance & risk management | AJBM12 | | ✓ | |
| 278. | Annual report analysis - lab | AJBM54 | | ✓ | |
| 279. | Summer internship - seminar | AJBM55 | | ✓ | |
| 280. | Operations management | AJBM13 | | ✓ | |
| 281. | Strategic management | AJBM14 | | ✓ | |
| 282. | Research methodology | AJBM15 | | ✓ | |
| 283. | Personal effectiveness - seminar | AJBM56 | | ✓ | |
| 284. | Business best practices and success | AJBM57 | | ✓ | |
| 285. | Consumer behavior | AJBMEM18 | | ✓ | |
| 286. | Sales and distribution | AJBMEM19 | | ✓ | |
| 287. | Integrated marketing communications | AJBMEM20 | | ✓ | |
| 288. | Strategic management accounting | AJBMEF26 | | ✓ | |
| 289. | Security analysis and portfolio management | AJBMEF27 | | ✓ | |
| 290. | Financial institutions, markets & services | AJBMEF28 | | ✓ | |
| 291. | Performance management | AJBMEH35 | | ✓ | |
| 292. | Training and development | AJBMEH36 | | ✓ | |
| 293. | Management of industrial relations | AJBMEH37 | | ✓ | |
| 294. | Entrepreneurship | AJBM16 | | ✓ | |
| 295. | Technology management | AJBM17 | | ✓ | |
| 296. | Pre submission of project –seminar | AJBM58 | | | ✓ |
| 297. | Comprehensive viva | AJBM59 | | | ✓ |
| 298. | Project | AJBM60 | ✓ | ✓ | ✓ |
| 299. | Retailing management | AJBMEM21 | | ✓ | |
| 300. | Services marketing | AJBMEM22 | | ✓ | |
| 301. | International marketing | AJBMEM23 | | ✓ | |
| 302. | Strategic investment and financing decisions | AJBMEF29 | | ✓ | |
| 303. | International financial management | AJBMEF30 | | ✓ | |
| 304. | Financial derivatives | AJBMEF31 | | ✓ | |
| 305. | Compensation & reward management | AJBMEH38 | | ✓ | |
| 306. | International human resource management | AJBMEH39 | | ✓ | |
| 307. | Leadership & change management | AJBMEH40 | | ✓ | |